Recombinant Human CTSK Protein, GST-tagged

Cat. No. CTSK-2111H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CTSK full-length ORF (AAH16058, 15 a.a. - 329 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene is a lysosomal cysteine proteinase involved in bone remodeling and resorption. This protein, which is a member of the peptidase C1 protein family, is predominantly expressed in osteoclasts. However, the encoded protein is also expressed in a significant fraction of human breast cancers, where it could contribute to tumor invasiveness. Mutations in this gene are the cause of pycnodysostosis, an autosomal recessive disease characterized by osteosclerosis and short stature. [provided by RefSeq, Apr 2013]
Molecular Mass	60.28 kDa
AA Sequence	ALYPEEILDTHWELWKKTHRKQYNNKVDEISRRLIWEKNLKYISIHNLEASLGVHTYE LAMNHLGDMTSEEVVQKMTGLKVPLSHSRSNDTLYIPEWEGRAPDSVDYRKKGYV TPVKNQGQCGSCWAFSSVGALEGQLKKKTGKLLNLSPQNLVDCVSENDGCGGGY MTNAFQYVQKNRGIDSEDAYPYVGQEESCMYNPTGKAAKCRGYREIPEGNEKALK RAVARVGPVSVAIDASLTSFQFYSKGVYYDESCNSDNLNHAVLAVGYGIQKGNKHW IIKNSWGENWGNKGYILMARNKNNACGIANLASFPKM
Applications	Enzyme-linked Immunoabsorbent Assay

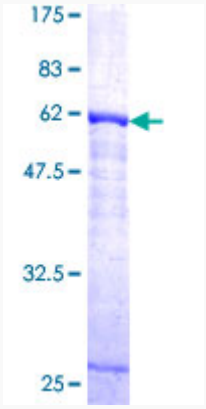
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45-1 Ramsey Road, Shirley, NY 11967, USA

	Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CTSK cathepsin K [Homo sapiens]
Official Symbol	CTSK
Synonyms	CTSK; cathepsin K; cathepsin K (pycnodysostosis) , CTSO, CTSO2, PYCD; PKND; cathepsin O; cathepsin X; cathepsin O1; cathepsin O2; CTSO; PYCD; CTS02; CTSO1; CTSO2; MGC23107;
Gene ID	1513
mRNA Refseq	NM_000396
Protein Refseq	NP_000387
MIM	601105
UniProt ID	P43235

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Quality Control Testing:	 12.5% SDS-PAGE Stained with Coomassie Blue.

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